## Claims

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- 2 1. A selective one-way wrench comprising:
  - a handle;
  - an annular head from which the handle projects, the annular head
  - defining a first space and a second space communicated with the
  - 6 first space;
- a gear rotationally put in the first space, the gear including a
- 8 toothed external face;
- 9 a direction controller put in the second space, the direction
- controller including two pawls and a spring installed between the
- pawls, each of the pawls including a toothed face; and
- a direction switch including a first element installed rotationally on
- the handle and a second element put in the second space and
- operably connected with the first element for bringing the toothed
- face of selective one of the pawls into engagement with the toothed
- external face of the annular gear.
- 17 2. The selective one-way wrench according to claim 1 wherein the
- first space is a circular space.
- 19 3. The selective one-way wrench according to claim 1 wherein the
- second space is a crescent space.
- 21 4. The selective one-way wrench according to claim 1 further
- including a spring-biased detent, wherein the handle defines a
- recess for receiving the spring-biased detent, and the first element
- of the direction switch includes a handle defining two recesses
- selective one of which receives the spring-biased detent so that the
- 26 handle is retained in selective one of two positions.

- 1 5. The selective one-way wrench according to claim 1 wherein the
- 2 first element includes a cylinder extending from a bottom thereof,
- and the second element includes a rod extending from a top thereof,
- and the cylinder of the first element receives the rod of the second
- 5 element.
- 6 6. The selective one-way wrench according to claim 5 wherein the
- 7 first element includes a slot communicated with the hole of the
- 8 cylinder, and the second element includes a ridge extending from
- 9 the rod, and the slot of the first element receives the ridge of the
- second element.
- 11 7. The selective one-way wrench according to claim 5 wherein the
- direction switch includes a pin forced into the rod of the second
- element through the cylinder of the first element.
- 14 8. The selective one-way wrench according to claim 1 wherein each of
- the pawls includes a rod, and the second element of the direction
- switch includes two hooks selective one of which hooks the rod of
- selective one of the pawls.
- 18 9. The selective one-way wrench according to claim 8 wherein the
- second element of the direction switch further includes a
- reinforcement plate with a bottom on which the hooks are formed.
- 21 10. The selective one-way wrench according to claim 5 wherein the
- second element includes a reinforcement plate and a rod extending
- 23 from the reinforcement plate.
- 24 11. The selective one-way wrench according to claim 1 wherein each of
- 25 the pawls includes a boss fit in the spring.
- 26 12. The selective one-way wrench according to claim 1 including an

- O-ring fit in the first space in order to support the annular gear.
- 2 13. The selective one-way wrench according to claim 1 including a
- 3 C-ring, wherein the annular head defines an annual groove in an
- 4 internal side for receiving an external edge of the C-ring, and the
- 5 O-ring defines an annular groove in an external side for receiving
- an internal edge of the C-ring.
- 7. 14. The selective one-way wrench according to claim 1 wherein the
- 8 gear is an annular gear.
- 9 15. The selective one-way wrench according to claim 1 wherein the
- gear includes an insert for insertion in a socket and a detent attached
- to the insert for retaining the socket on the insert.
- 12 16. The selective one-way wrench according to claim 15 wherein the
- detent is switched between an extended position for retaining the
- socket and a withdrawn position for releasing the socket.
- 15 17. The selective one-way wrench according to claim 16 including a
- control device for controlling the switching of the detent between
- the extended position and the withdrawn position.
- 18. The selective one-way wrench according to claim 17 wherein the
- 19 control device includes:
- an aperture defined in the insert for trapping the detent;
- a space defined in the insert and communicated with the aperture;
- 22 and
- a rod movable in the space for pushing the detent to the extended
- position.
- 25 19. The selective one-way wrench according to claim 18 wherein the
- rod includes a hole for receiving the detent in the withdrawn

1 position.

2 20. The selective one-way wrench according to claim 19 wherein the control device includes a spring compressed between a portion of the rod and a portion of the gear.

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